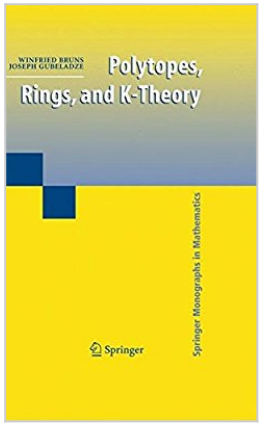

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics)

By Winfried Bruns, Joseph Gubeladze

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze

This book examines interactions of polyhedral discrete geometry and algebra. What makes this book unique is the presentation of several central results in all three areas of the exposition - from discrete geometry, to commutative algebra, and K-theory.

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics)

By Winfried Bruns, Joseph Gubeladze

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze

This book examines interactions of polyhedral discrete geometry and algebra. What makes this book unique is the presentation of several central results in all three areas of the exposition - from discrete geometry, to commutative algebra, and K-theory.

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze Bibliography

- Rank: #1997200 in Books
- Brand: Bruns Winfried Gubeladze Joseph
- Published on: 2009-05-27
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.06" w x 6.14" l, 1.85 pounds
- Binding: Hardcover
- 461 pages

Editorial Review

Review

From the reviews:

“The book deals with the convex geometry of the polyhedral cones CM and related topics … . With an extensive list of references together with historical notes at the end of each chapter, this book will serve as a welcome comprehensive monograph for research on these rich and fascinating subjects.” (T. Oda, Mathematical Reviews, Issue 2010 d)

“Interactions between convex geometry, ring theory, K-theory, combinatorial geometry, toric geometry, combinatorics in commutative algebra, which are presented in this book together with … central results in each of the above fields. … All the chapters contain many useful exercises … . a good part of the book is not covered by any other book and so especially people from commutative algebra should have it.” (Dorin-Mihail Popescu, Zentralblatt MATH, Vol. 1168, 2009)

“Polytopes, Rings, and K-Theory weighs in at over 400 pages and ten chapters split into three main parts, culminating in the aforementioned K-theory in the given context. … There are exercises galore in the book … . All in all, Polytopes, Rings, and K-Theory is an accessible and well-written book on an interesting and important subject … . It should be quite a success.” (Michael Berg, The Mathematical Association of America, December, 2009)

From the Back Cover

This book treats the interaction between discrete convex geometry, commutative ring theory, algebraic K-theory, and algebraic geometry. The basic mathematical objects are lattice polytopes, rational cones, affine monoids, the algebras derived from them, and toric varieties. The book discusses several properties and invariants of these objects, such as efficient generation, unimodular triangulations and covers, basic theory of monoid rings, isomorphism problems and automorphism groups, homological properties and enumerative combinatorics. The last part is an extensive treatment of the K-theory of monoid rings, with extensions to toric varieties and their intersection theory.

This monograph has been written with a view towards graduate students and researchers who want to study the cross-connections of algebra and discrete convex geometry. While the text has been written from an algebraist's view point, also specialists in lattice polytopes and related objects will find an up-to-date discussion of affine monoids and their combinatorial structure. Though the authors do not explicitly formulate algorithms, the book takes a constructive approach wherever possible.

Winfried Bruns is Professor of Mathematics at Universität Osnabrück.

Joseph Gubeladze is Professor of Mathematics at San Francisco State University.

Users Review

From reader reviews:

Alan Levin:

Reading a e-book tends to be new life style within this era globalization. With reading you can get a lot of information that can give you benefit in your life. Using book everyone in this world can easily share their idea. Publications can also inspire a lot of people. Lots of author can inspire their own reader with their story as well as their experience. Not only the storyplot that share in the textbooks. But also they write about the information about something that you need instance. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book which exist now. The authors on earth always try to improve their skill in writing, they also doing some analysis before they write for their book. One of them is this Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics).

Irma Hughes:

The reserve with title Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) has lot of information that you can understand it. You can get a lot of benefit after read this book. This kind of book exist new know-how the information that exist in this guide represented the condition of the world today. That is important to yo7u to learn how the improvement of the world. This book will bring you in new era of the globalization. You can read the e-book with your smart phone, so you can read it anywhere you want.

Gregory McCormick:

Within this era which is the greater man or who has ability in doing something more are more valuable than other. Do you want to become one among it? It is just simple solution to have that. What you are related is just spending your time little but quite enough to get a look at some books. One of the books in the top list in your reading list is Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics). This book and that is qualified as The Hungry Hillsides can get you closer in getting precious person. By looking up and review this reserve you can get many advantages.

Randi Adams:

As we know that book is vital thing to add our know-how for everything. By a reserve we can know everything we would like. A book is a list of written, printed, illustrated as well as blank sheet. Every year ended up being exactly added. This guide Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) was filled with regards to science. Spend your free time to add your knowledge about your research competence. Some people has different feel when they reading the book. If you know how big benefit from a book, you can experience enjoy to read a reserve. In the modern era like currently, many ways to get book you wanted.

Read Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze for online ebook

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze books to read online.

Online Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze ebook PDF download

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze Doc

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze Mobipocket

Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze EPub

TLEDAVNWUQO: Polytopes, Rings, and K-Theory (Springer Monographs in Mathematics) By Winfried Bruns, Joseph Gubeladze